

FIG. 1

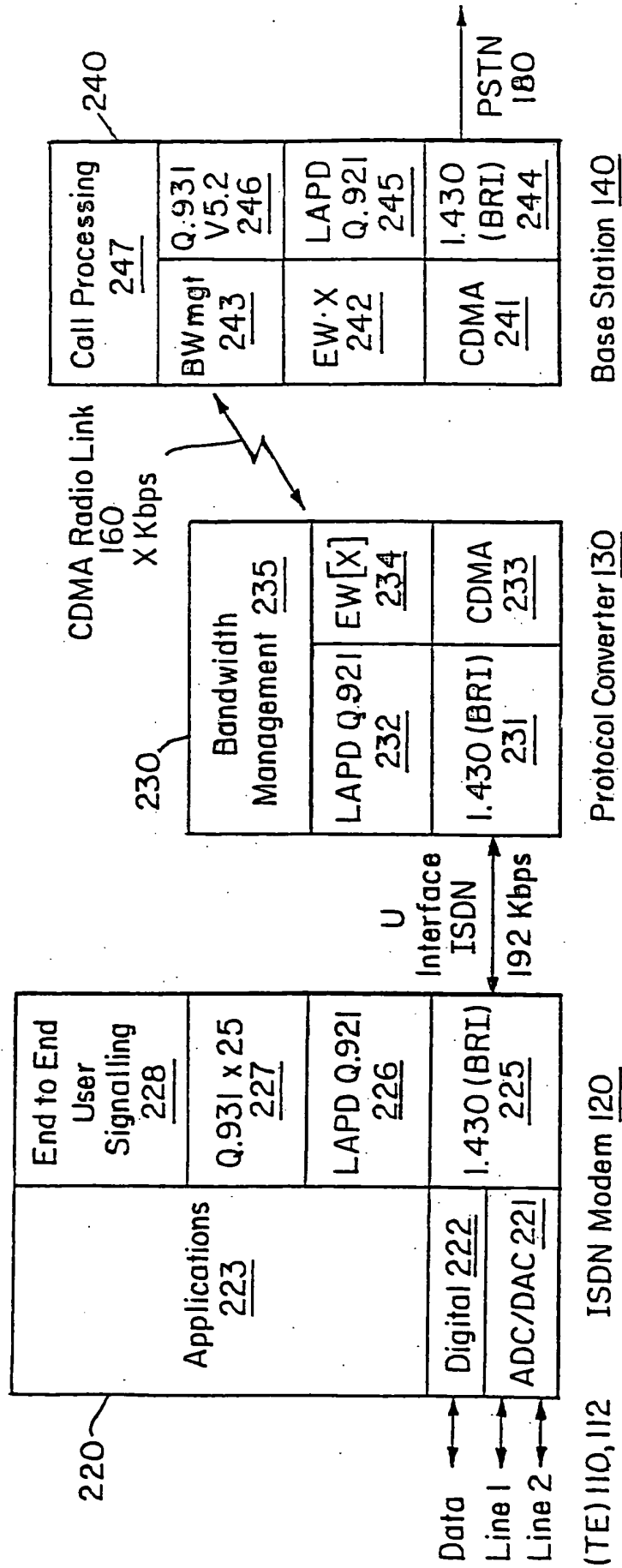


FIG. 2

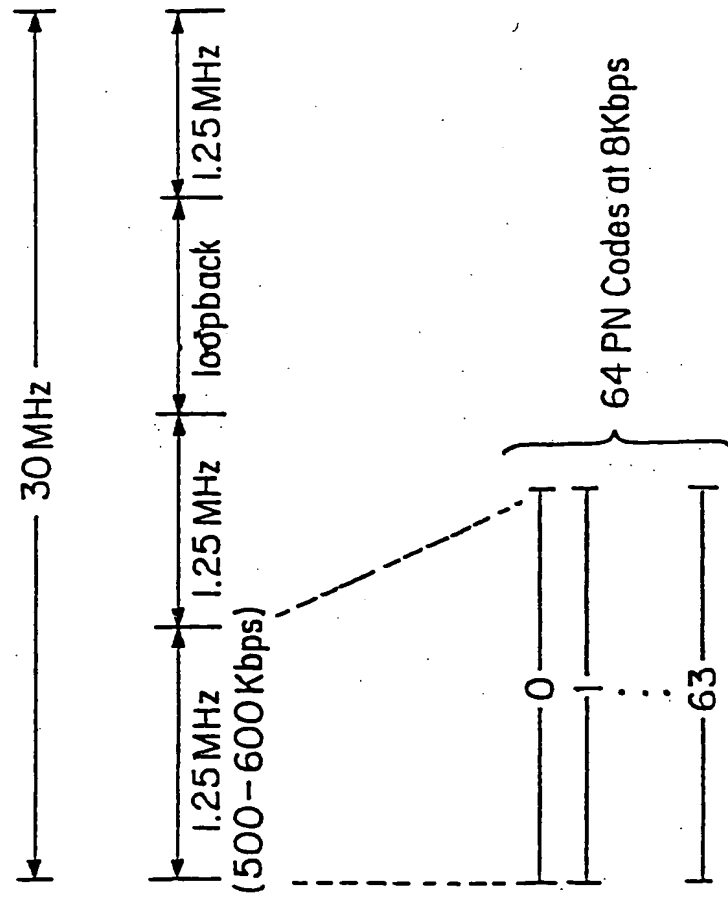


FIG. 3

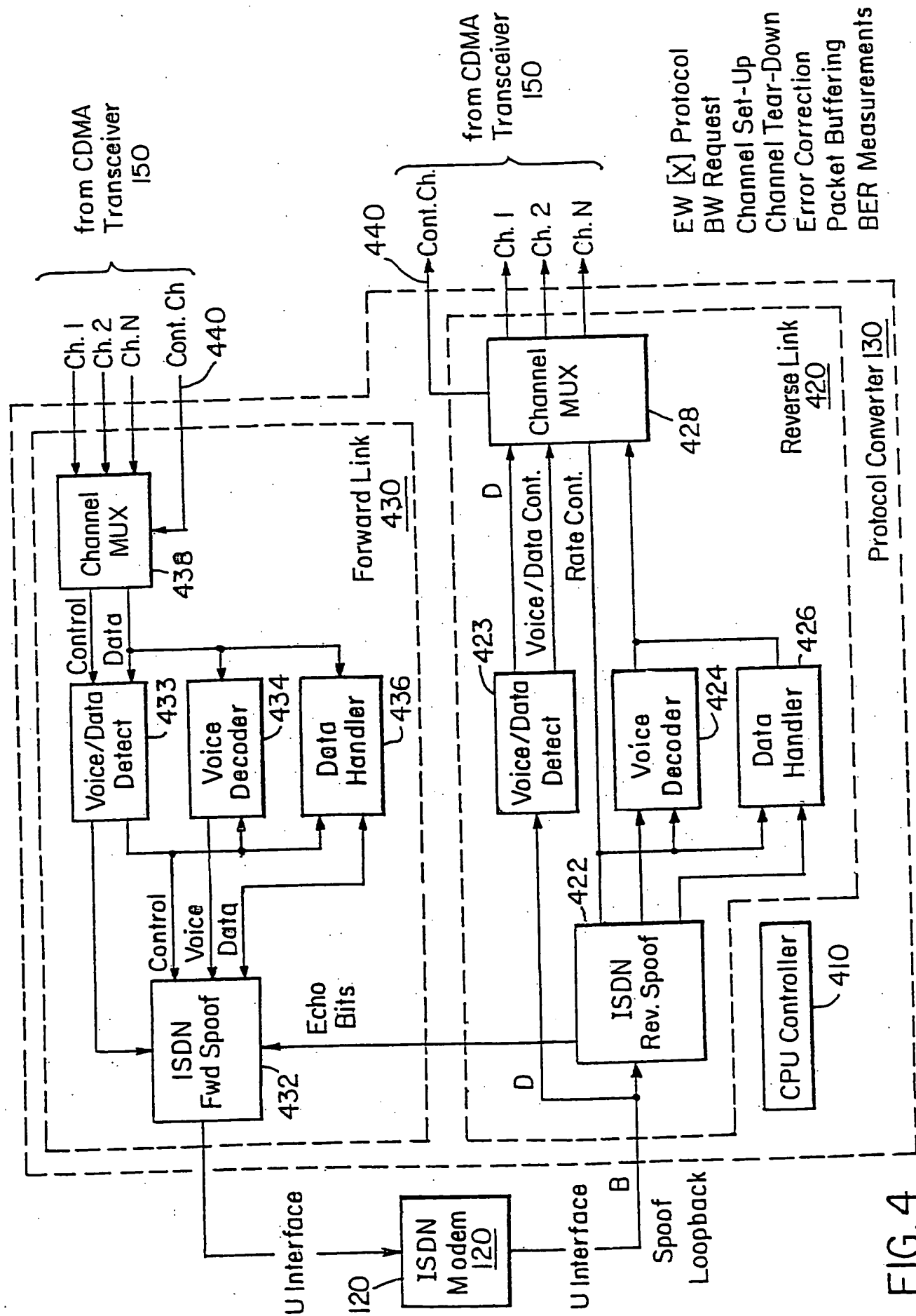


FIG. 4

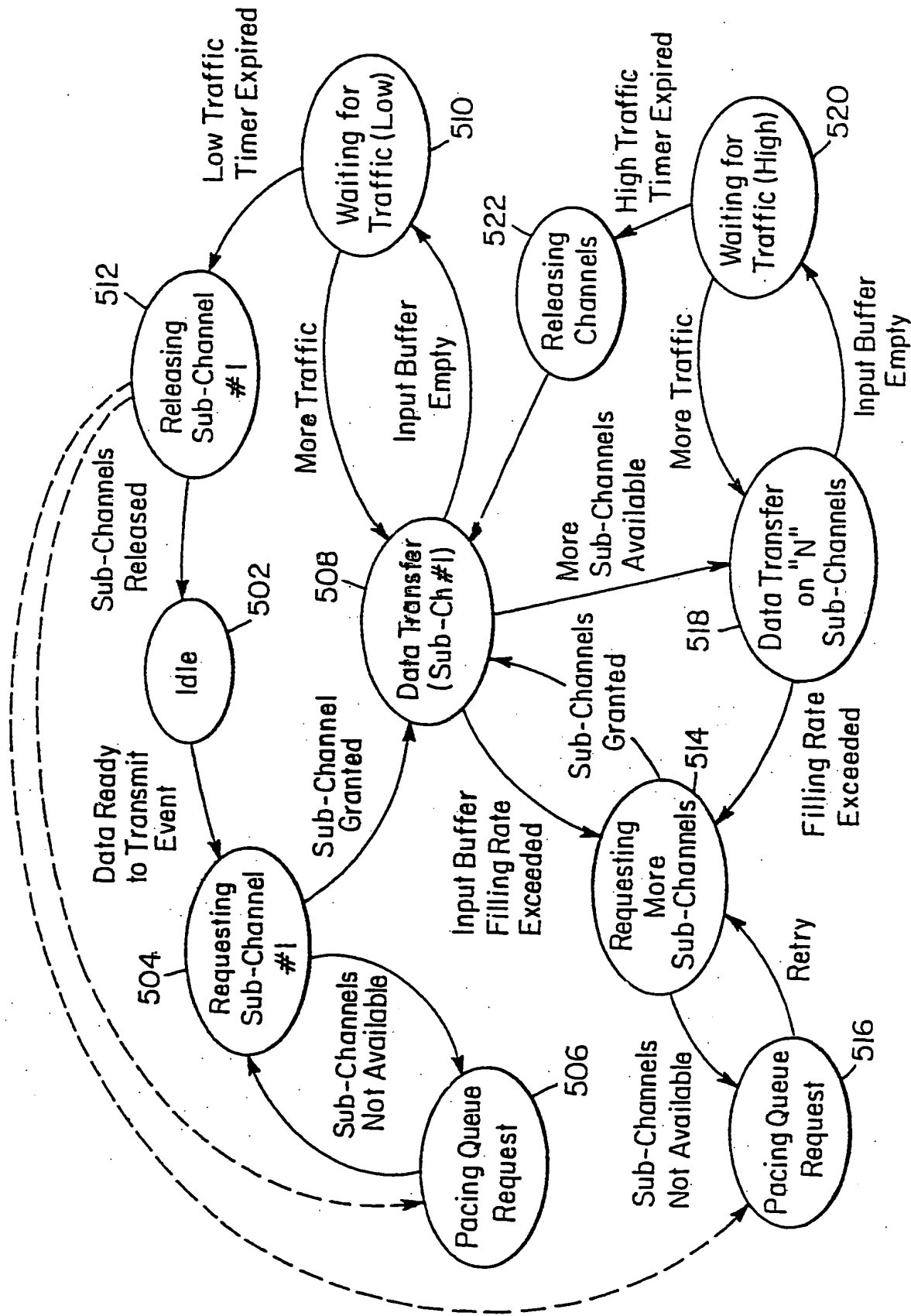


FIG. 5

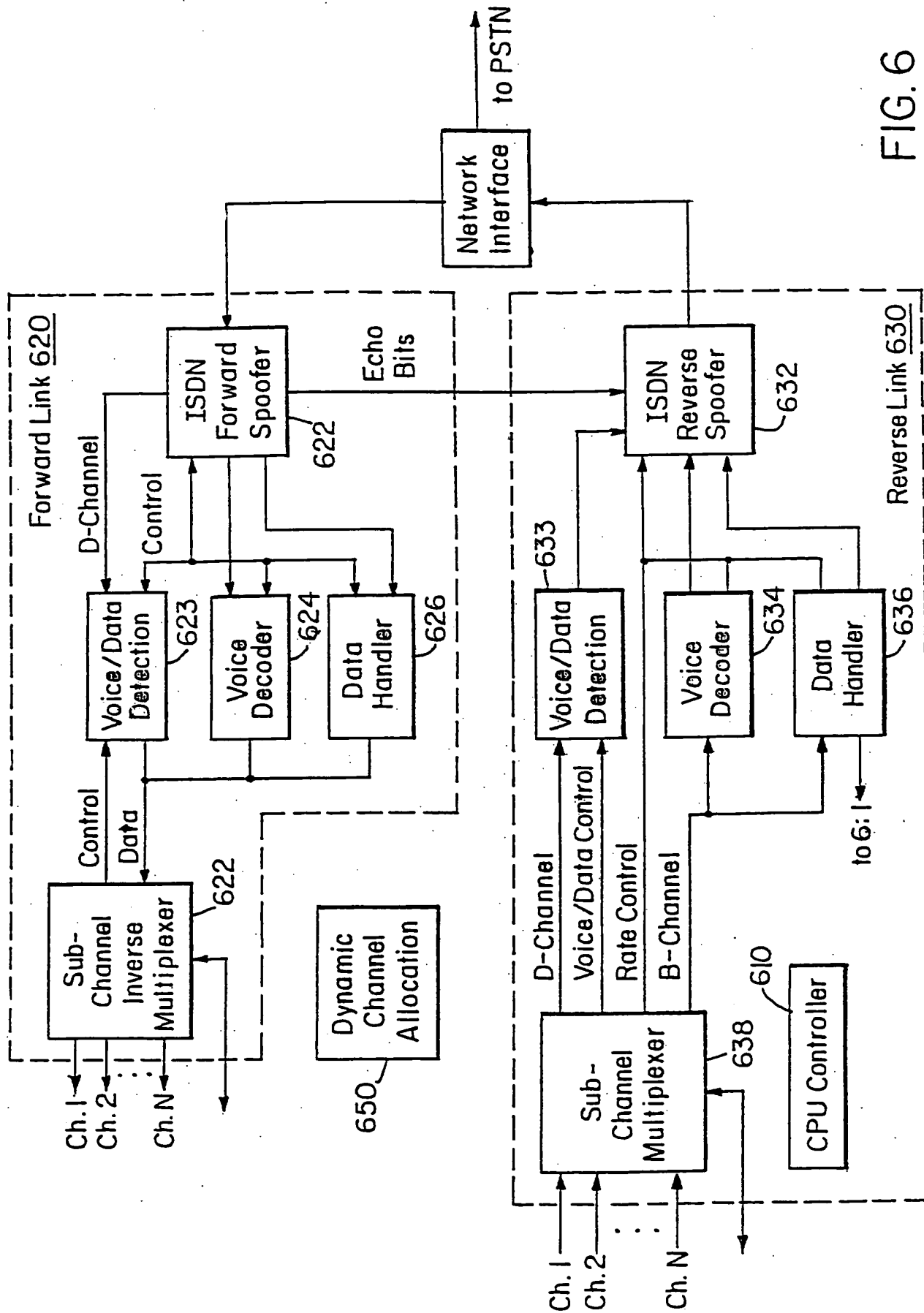
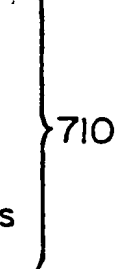


FIG. 6

MAIN:

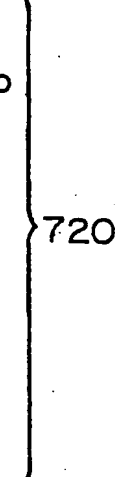
DO Always
 Process Port Request
 Process Bandwidth Release
 Process Bandwidth Requests
 Locate and tear down unused sub-channels
ENDDO



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PORT REQUEST:

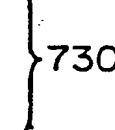
Make reservation in least utilized sub-band
 Reservation decision based on % of available Sub-Channels to
 assign (Based on parallel user BW vs. throughput efficiency)
IF reservation was made
 Send frequency and code assignment
 Update allocations
ELSE
 Add port request to port queue
 Calculate expected wait time
 Send wait message to user
ENDIF



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BANDWIDTH RELEASE:

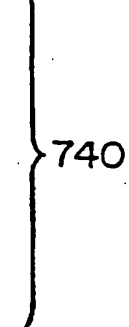
Notify channel-bonding function
Return frequency and code to available pool
Update radio record



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BANDWIDTH REQUEST:

Select highest priority with lowest bandwidth utilization,
including need-allocation gap
Check other sub-bands for greatest available sub channels
 (Switch sub-bands if difference in sub-band space
 exceeds payback threshold)
Assign sub channels based on need, priority, availability
Notify channel bonding function
Update radio record



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FIG. 7